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1439th Conference

Scientific Program

2nd World Congress and Expo on

GRAPHENE & 2D MATERIALS

November 06-07, 2017 | Frankfurt, Germany

Graphene World 2017

Meeting Room @ Spessart

conference**series**.com 09:15-09:30

Opening Ceremony

Keynote Forum

- Introduction**
- 09:30-10:10 **Title: Graphene and graphene-based devices: a future for electronics**
John Bell, Queensland University of Technology, Australia
- 10:10-10:50 **Title: Graphene-ceramic nanocomposites**
Christophe Laurent, Toulouse University, France

Group Photo @ 10:50-10:55

Networking and Refreshments Break 10:55-11:10 @ Foyer

- 11:10-11:40 **Title: CVD approach of atom-thin transition metal dichalcogenides: Synthetic strategy and case studies**
Zheng Liu, Nanyang Technological University, Singapore
- 11:40-12:10 **Title: Theoretical Modeling of Early Stages of Graphene Growth by Epitaxial Methods**
Lev Kantorovich, King's College London, UK

Plenary session

Session Introduction

- 12:10-12:40 **Title: Collision-induced fusion of two single-walled carbon nanotubes: A quantitative study**
Feng-Shou Zhang, Beijing Normal University, China
- 12:40-13:10 **Title: Light-matter interactions in 2D materials throughout the infrared-THz spectral regime**
Chase T Ellis, U.S. Naval Research Laboratory, USA
- 13:10-13:40 **Title: Importance of protein adsorption on carbon allotropes: From biomaterials to separation techniques by molecular dynamics study**
Giuseppina Raffaini, Politecnico di Milano, Italy

Lunch Break 13:40-14:10 @ Restaurant Gaumenfreund

- 14:10-14:40 **Title: Graphene nanodevice design and pathways to industry**
Yvette Hancock, University of York, UK
- 14:40-15:10 **Title: Controlled formation of nano-domains in two-dimensional heterostructures**
Luca Camilli, Danish Technical University, Denmark
- 15:10-15:40 **Title: Local dipole moment on rutile TiO₂(110) surface by electrostatic force microscopy**
Yanjun Li, University of Tsukuba, Japan

Panel Discussion

- 15:40-16:10 **Title: Low-Temperature Reduction of Graphene Oxide**
Oleksii Nazarov, Lashkaryov Institute of Semiconductor Physics NASU, Ukraine

Networking and Refreshments Break 16:10-16:30 @ Foyer

- 16:30-17:00 **Title: Plasma Enhanced Chemical Vapor Deposition of Graphene**
Samir Farhat, Sorbonne Paris Cité University, France
- 17:00-17:30 **Title: Growth of Epitaxial Graphene on SiC and its Sensing Application**
G Reza Yazdi, Linköping University, Sweden
- 17:30-18:00 **Title: Is 2D going to make organic electronics**
Li Ping Lu, University of Exeter, UK

Panel Discussion

Day 2 November 07, 2017

Meeting Room @ Spessart

Keynote Forum

Introduction

09:30-10:10 **Title: Quantum Hall Effect near the Cyclotron Resonance of a Two-Dimensional Electron Gas**
John Cerne, University at Buffalo, USA

10:10-10:50 **Title: Bioartificial esophagus: Strategy for layered structure regeneration**
Eun-Jae Chung, Seoul National University College of Medicine, South Korea

Networking and Refreshments Break 10:50-11:05 @ Foyer

11:05-11:45 **Title: Mechanical strain in two-dimensional materials**
Konstantinos Papagelis, Foundation for Research and Technology-Hellas (FORTH), Greece

Plenary session

Session Introduction

11:45-12:15 **Title: Polymer/ graphene hybrids as building blocks for flexible touch screens**
John Parthenios, Foundation for Research and Technology-Hellas (FORTH), Greece

12:15-12:45 **Title: Surface periodic micro-nanostructuring of diamond by boron and silver ion implantation**
Andrey L Stepanov, Kazan Federal University, Russia

12:45-13:15 **Title: Direct observation of electrically controllable spin states in single-layer graphene using electron spin resonance spectroscopy**
Kazuhiro Marumoto, University of Tsukuba, Japan

Lunch Break 13:15-14:00 @ Restaurant Gaumenfreund

14:00-14:30 **Title: Synthesis of Well-Defined 2D Nanomaterials to Study the Mechanism of Graphene-Pathogen Interactions**
Mohsen Adeli, Lorestan University, Iran

Sessions: Synthesis of Graphene and 2D Materials | Graphene and 2D Materials based Nanocomposites | Graphite, Graphene & their polymer nano composites | Graphene and Graphene oxide | Graphene Modification and Functionalisation

Session Chair: John Bell, Queensland University of Technology, Australia

Session Co-Chair: Feng-Shou Zhang, Beijing Normal University, China

Session Introduction

14:30-14:50 **Title: Substrates rubbing method for obtaining mono- and few layer graphene and 2D materials**
Gagik Shmavonyan, National Polytechnic University, Armenia

14:50-15:10 **Title: Graphene Sensors for Healthcare Applications**
Zari Tehrani, Swansea University, UK

15:10-15:30 **Title: Water at the Interface Between Defective Graphene and Cu or Pt (111) Surface**
Daniele Perilli, Università di Milano-Bicocca, Italy

15:30-15:50 **Title: GO/rGO: Structural and Electrical Correlation through Experimental and Software Simulation**
Rashmi Chawla, University of Science and Technology Murthal, India

15:50-16:10 **Title: Synthesis of two-dimensional materials via liquid metal catalysts route: Instrument development for in situ investigation**
Amirmehdi Saedi, Leiden University, Netherlands

16:10-16:30 **Title: Nanostructured few-layer graphene and fluorographene films for a wide range of electronic applications**
Nadezhda Nebogatikova, Rzhanov's Institute of Semiconductors Physics SB RAS, Russia

Networking and Refreshment Break 16:30-16:45 @ Foyer

16:45-17:05 **Title: New approach in graphene-oxide polybenzoxazine nanocomposites synthesis**
Elena Iuliana Bîru, University Politehnica of Bucharest, Romania

Panel Discussion

Award & Closing Ceremony